

United States Patent [19]**Harris**[11] **Patent Number:** **4,494,990**[45] **Date of Patent:** **Jan. 22, 1985**[54] **CEMENTITIOUS COMPOSITION**[75] **Inventor:** **Harry A. Harris, Leawood, Kans.**[73] **Assignee:** **Ash Grove Cement Company,
Overland Park, Kans.**[21] **Appl. No.:** **510,636**[22] **Filed:** **Jul. 5, 1983**[51] **Int. Cl.³** **C04B 7/35**[52] **U.S. Cl.** **106/90; 106/98;
106/110; 106/111; 106/117**[58] **Field of Search** **106/98, 110, 111, 117,
106/90**[56] **References Cited****U.S. PATENT DOCUMENTS**

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Wharton, Bowman & Johnson[57] **ABSTRACT**

An improved cementitious composition is the subject of the present invention. The composition comprises 25–60 weight percent cement component. The cement component is 3 to 50 weight per pozzolan. The pozzolan should have a sulfate reactivity factor of no greater than 12 utilizing a function obtained from the Dunstan formula. The composition is 40 to 75 percent by weight alpha gypsum (calcium sulfate hemihydrate). Various additives may be included to enhance the performance of the composition. These include polymer modifiers, a water reducing agent, a set retarding agent and a set accelerating agent.

9 Claims, No Drawings